

Rajiv Gandhi University of Health Sciences, Karnataka

First Phase MBBS Degree Examination - Dec 2012

Time: Three Hours

Max. Marks: 100 Marks

PHYSIOLOGY-PAPER I (RS2 & RS3 SCHEME)

QP Code: 1077

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. Describe the chemical regulation of breathing.
2. Describe the counter current multiplier system. What is its role?

SHORT ESSAYS

10 x 5 = 50 Marks

3. Define secondary active transport and describe the factors affecting it giving examples.
4. Draw 'carbon dioxide dissociation curve'. Explain 'Haldane Effect'
5. Functions of T-lymphocytes'
6. Erythroblastosis Foetalis.
7. Classify smooth muscles .List the properties of an
8. Sources of energy for skeletal muscle contraction'
9. Explain 'defecation reflex'
10. Describe the digestion and absorption of carbohydrates.
11. Starling's Law and it application to heart.
12. Venous return

SHORT ANSWERS

10 x 3 = 30 Marks

13. List two 'peptide' hormones . Explain the mechanism of action of any one.
14. Calculate MCV and **MCH**, given;
PCV= 45%, RBC Count = 5 **Hb°Io= 15 Gm%.**
15. Myasthenia gravis.
16. Steatorrhea.
17. Factors influencing G.F.R
18. Juxta glomerular apparatus.
19. Sinus arrhythmia.
20. Phonocardiogram
21. Ventilation-Perfusion ratio.
22. Lung Compliance.